

H0005829 (1100.1222101)

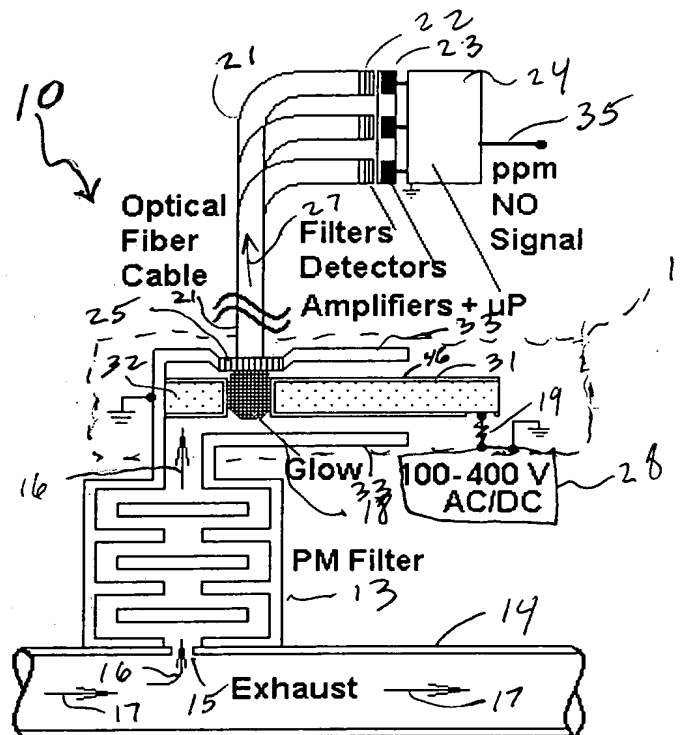


FIGURE 1

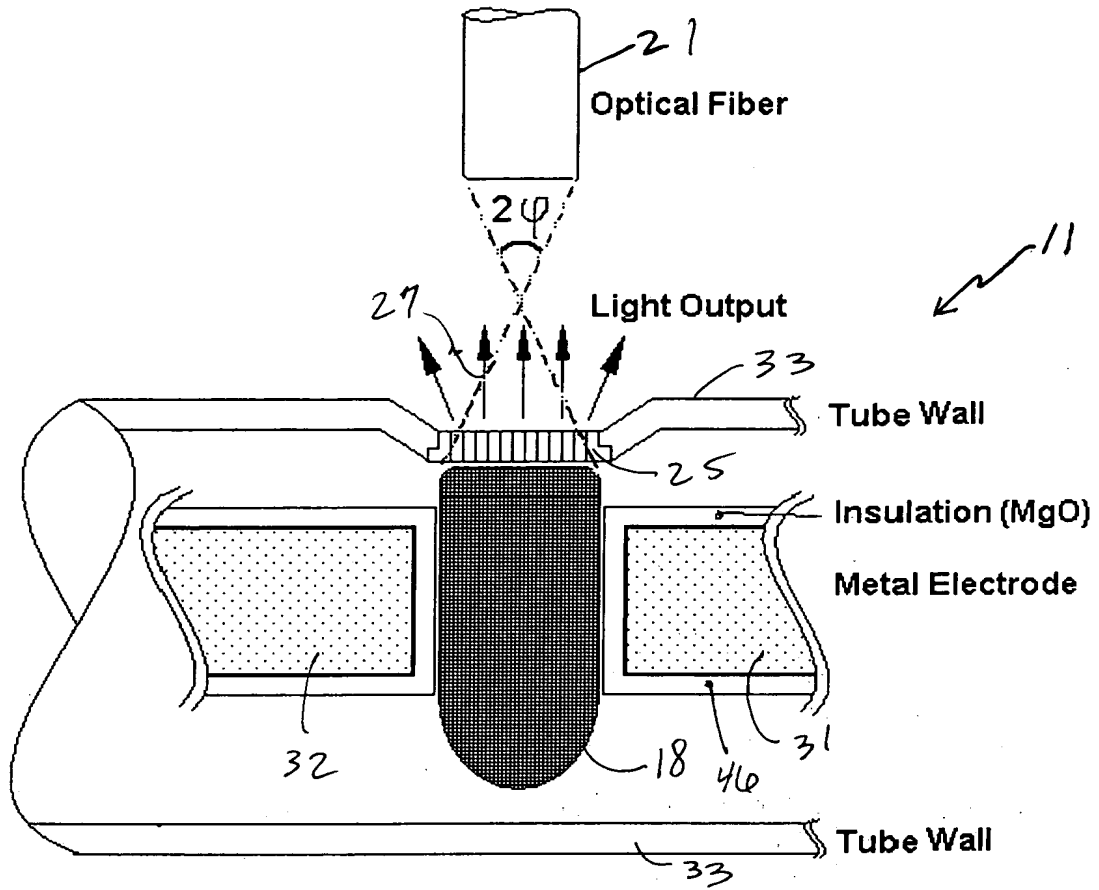
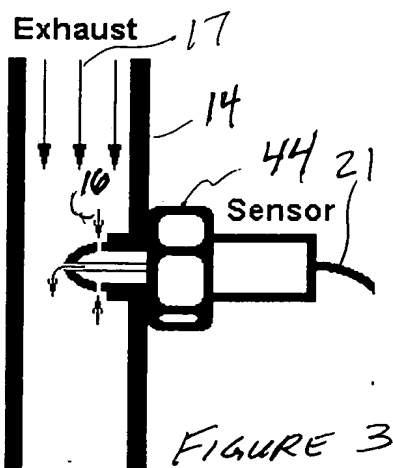


FIGURE 2



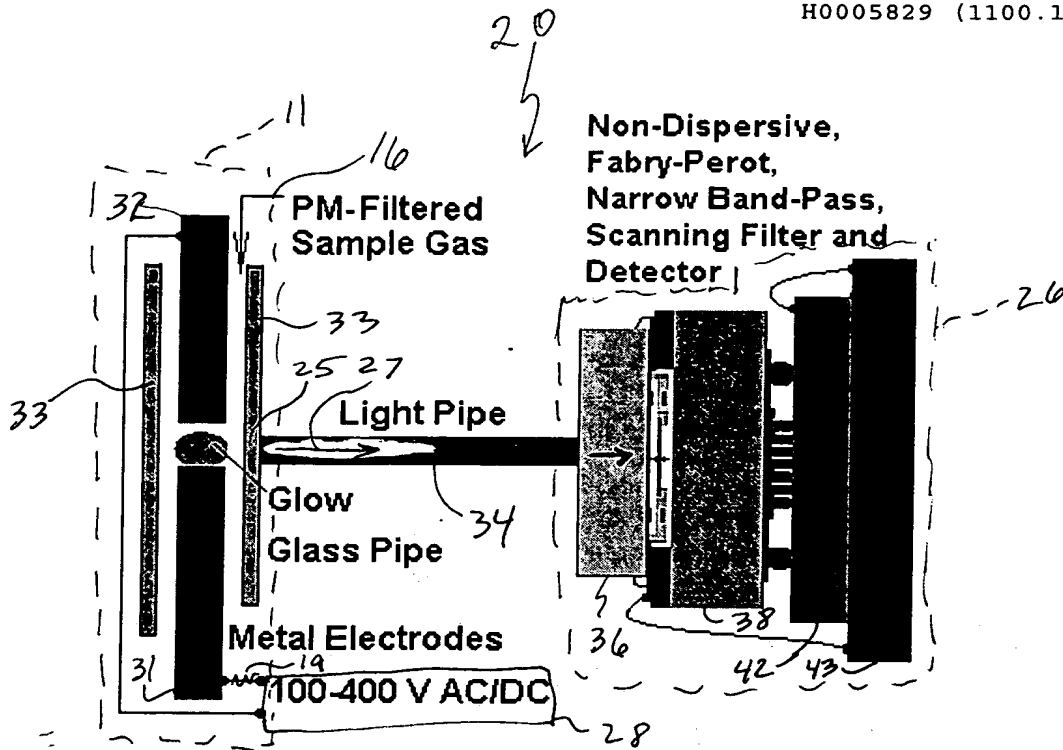


FIGURE 4

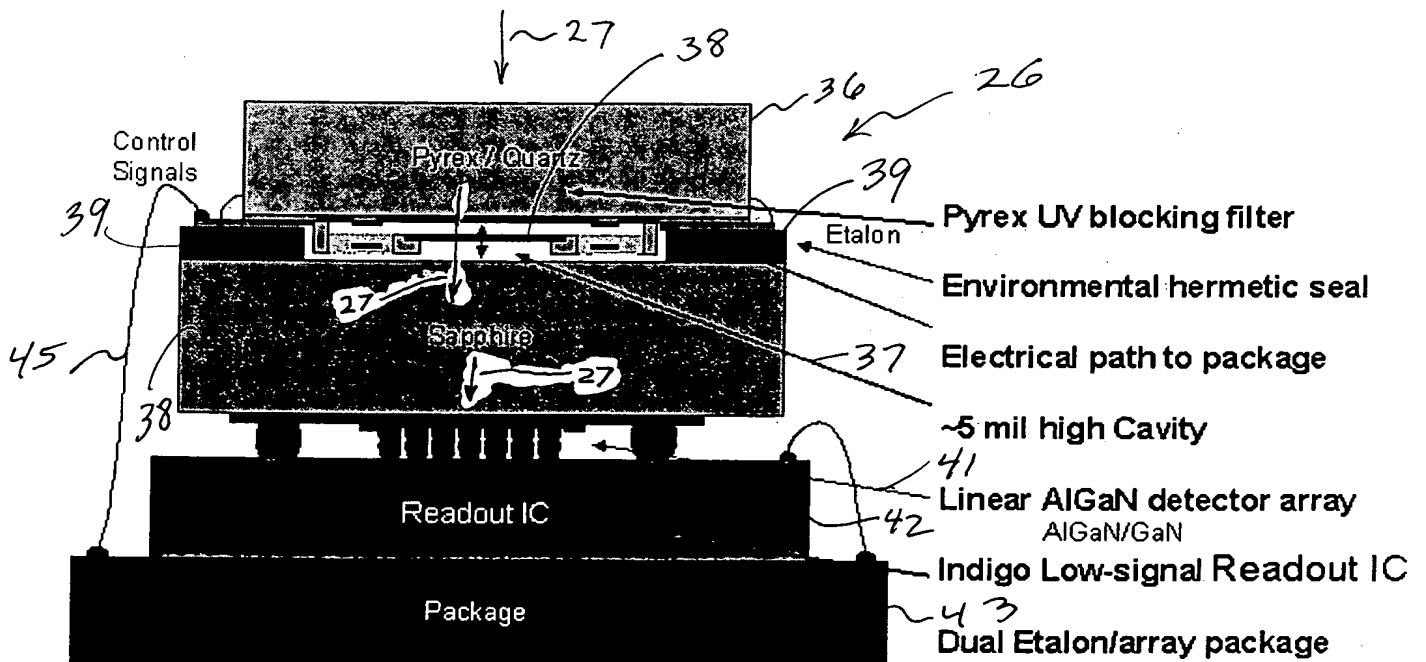


FIGURE 5

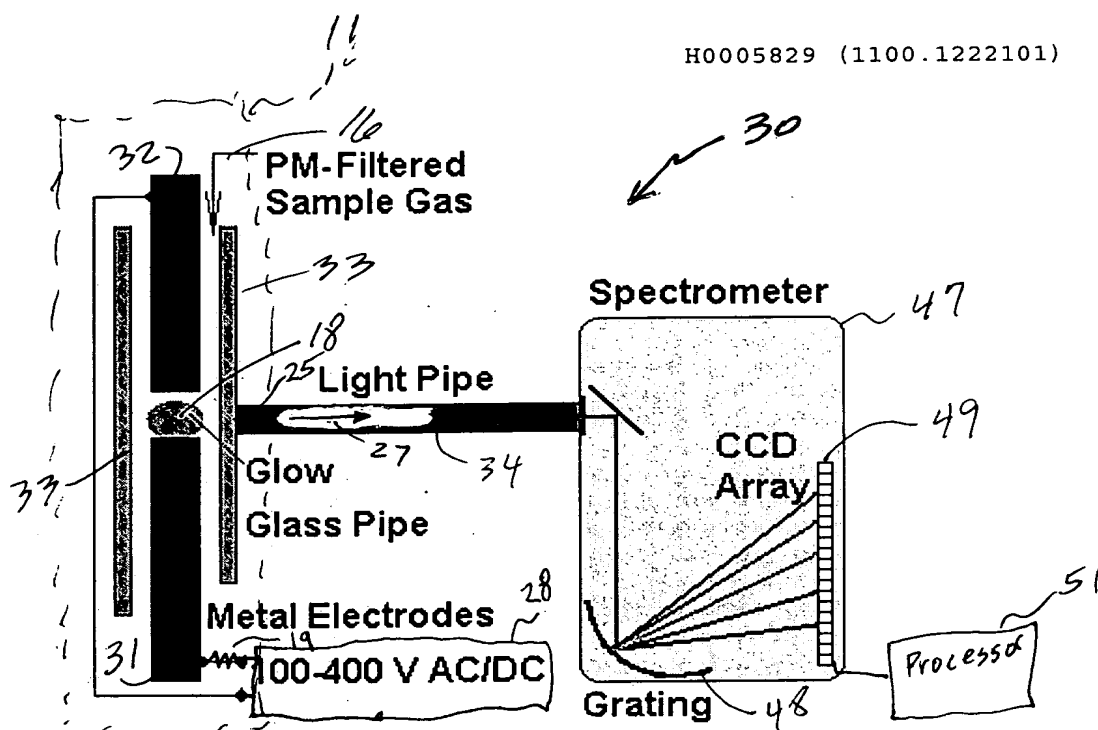


FIGURE 6

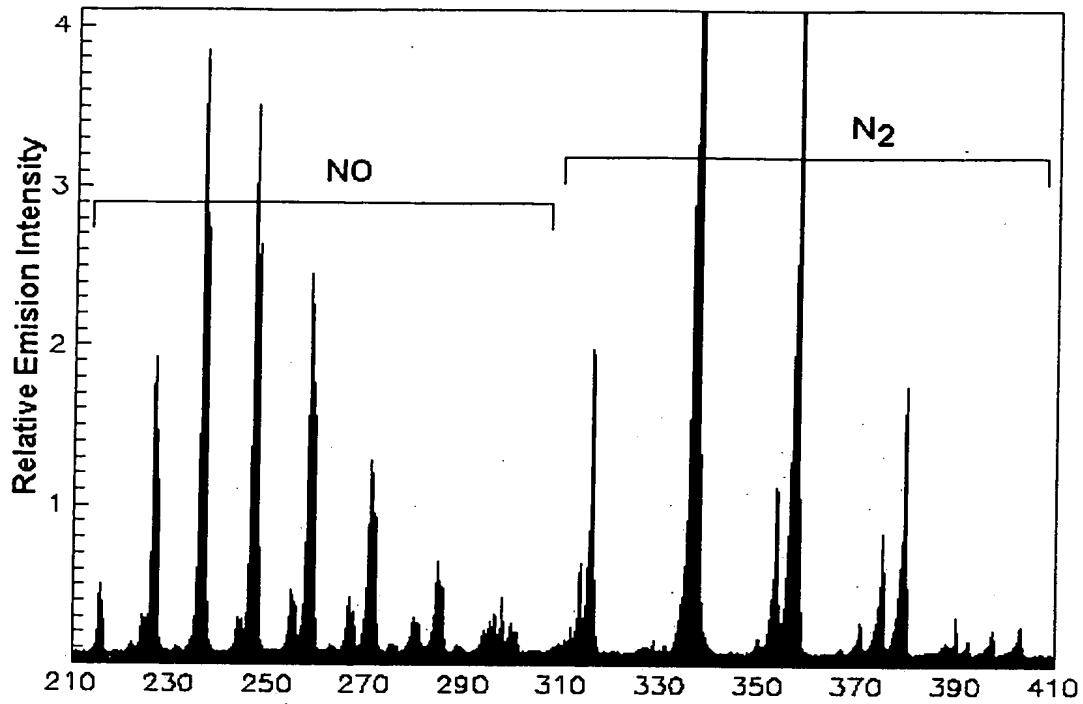


FIGURE 7

Ref. Index	Transm. Wavelength		Material	Ref. Index at 250 nm
	$\lambda_0 = 250 \text{ nm}$			
-	$\phi = 20$	$\phi = 10$	-	-
1.0	234.92	246.20	Sapphire	1.845
1.5	243.41	248.32	Quartz	1.600
2.0	246.32	249.06	CaF2	1.467
2.5	247.65	249.40		
5.0	249.41	249.85		

FIGURE 8

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Table 1. Fabry-Perot-Based Wavelength Modulation for Gas Sensing

Gas	Band Ctr. cm-1	Tine Spac. cm-1	Line Width $\Delta\lambda$ in cm-1	$v/\Delta v$ ppm	FP-Spac. mm	Dither μm	Band Ctr. nm	Band Limits nm		Tine Spac. nm	Finesse	Comments
O2	13145	2.121	0.174	161	2.357	0.380373	760.746			0.1228	12.2	
O2	13145	50.000	25.000	3804	0.100	0.380373	760.746			2.8937	2.0	
O2	13090	7.229	0.174	552	0.692	0.381971	763.942			0.4219	20.7	
CO	2170	3.57	0.357	1645	1.401	2.304147	4608.295			7.5814	10.0	NDIR absorption
NO	30000	15000	250	500000	0.00033	0.166667	333.33	222.22	666.67	166.67	60.0	UV emissive
NO	33333	10000	278	300003	0.00050	0.150002	300.00	230.77	428.58	90.00	36.0	UV emissive

FIGURE 9

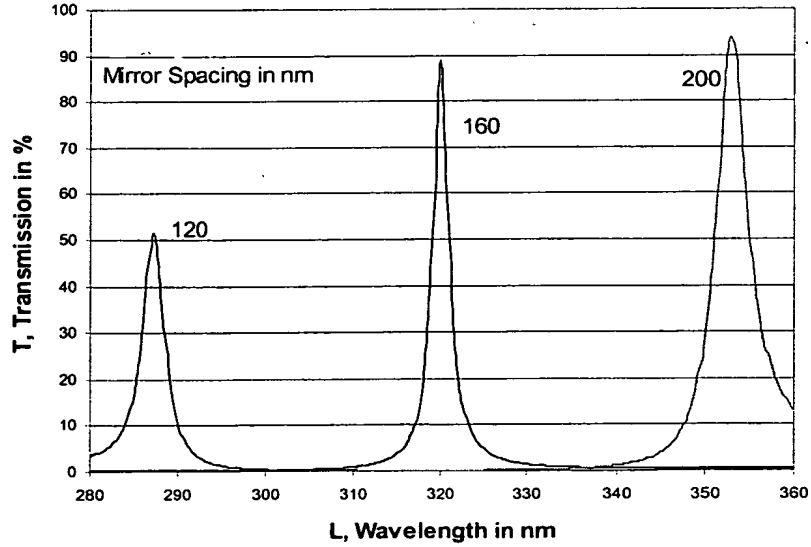


FIGURE 10